

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1008932

Luminaire Tested: S122DIP-B290D725UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008932
REPORT IS A COMBINATION OF REPORTS P984047 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D725UB40-4F0-XX-W2A-F1
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

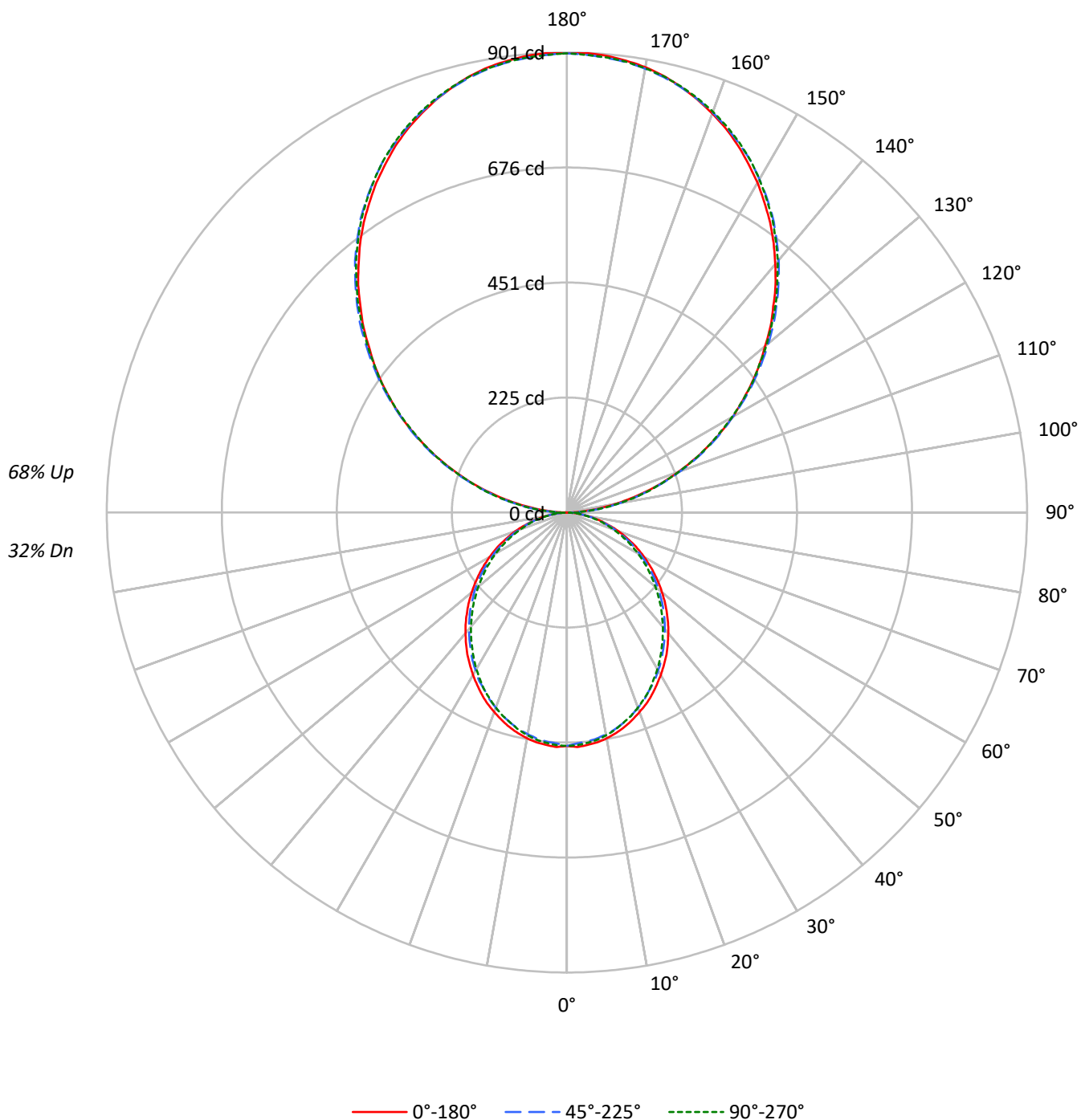
Lumens per Lamp: N/A
Luminaire Lumens: 3680.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7236	7236	7236
5°	7247	6897	6849
10°	7189	6583	6453
15°	7083	6266	6036
20°	6941	5921	5641
25°	6799	5561	5247
30°	6622	5223	4834
35°	6453	4866	4428
40°	6246	4515	4044
45°	6039	4166	3667
50°	5813	3811	3278
55°	5574	3431	2907
60°	5307	3019	2523
65°	5016	2603	2118
70°	4643	2144	1711
75°	4128	1654	1321
80°	3513	1123	849
85°	2543	521	362

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6039 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.2
10°-20°	121.1	3.3
20°-30°	177.9	4.8
30°-40°	206.6	5.6
40°-50°	206.4	5.6
50°-60°	179.9	4.9
60°-70°	133.0	3.6
70°-80°	75.3	2.0
80°-90°	22.4	0.6
90°-100°	55.6	1.5
100°-110°	176.9	4.8
110°-120°	302.6	8.2
120°-130°	398.0	10.8
130°-140°	446.8	12.1
140°-150°	438.1	11.9
150°-160°	367.5	10.0
160°-170°	243.7	6.6
170°-180°	85.2	2.3
0°-30°	342.0	9.3
0°-40°	548.6	14.9
0°-60°	934.9	25.4
0°-90°	1165.6	31.7
90°-120°	535.2	14.5
90°-150°	1818.0	49.4
90°-180°	2514.0	68.3
0°-180°	3680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	457	457	457	457	457	
5°	457	455	450	454	453	43
15°	435	432	427	429	426	123
25°	394	390	383	384	383	181
35°	340	335	328	326	324	212
45°	276	273	267	262	260	213
55°	209	207	201	196	194	187
65°	141	138	134	130	128	139
75°	74	73	71	68	69	79
85°	18	18	17	16	15	20
90°	1	10	27	25	26	4
95°	40	47	49	49	47	44
105°	163	166	167	168	168	172
115°	304	308	307	306	304	300
125°	442	448	446	444	443	395
135°	572	580	581	581	578	442
145°	694	699	704	704	701	433
155°	793	795	798	802	799	365
165°	863	862	862	868	864	243
175°	898	896	894	899	895	85
180°	899	899	899	899	899	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	457.1	457.1	457.1	457.1	457.1
2.5°	459.8	457.6	452.7	457.1	456.2
5°	457.1	455.4	450.5	454.0	453.2
7.5°	454.0	451.4	446.6	450.1	449.2
10°	449.2	446.1	440.9	444.4	443.1
12.5°	442.6	440.0	434.7	436.9	436.0
15°	435.1	432.5	426.8	428.6	426.4
17.5°	425.9	423.3	417.6	419.8	417.6
20°	415.8	413.2	407.0	408.3	406.6
22.5°	405.7	401.7	396.0	396.0	395.1
25°	393.8	390.3	382.8	383.7	382.8
27.5°	380.6	377.6	371.9	370.5	368.3
30°	367.5	363.9	357.3	356.0	354.3
32.5°	353.4	350.8	343.7	341.1	339.3
35°	339.8	335.4	328.3	325.7	323.5
37.5°	324.4	320.4	313.4	310.3	308.1
40°	308.6	305.0	298.0	294.1	292.3
42.5°	293.2	289.7	282.6	278.2	275.6
45°	276.5	273.4	266.8	262.0	260.2
47.5°	260.2	257.1	250.1	245.3	242.6
50°	243.1	240.9	234.7	228.6	226.4
52.5°	226.4	223.3	217.6	212.7	209.7
55°	209.2	206.6	201.3	196.0	193.8
57.5°	192.1	189.9	184.2	178.9	177.1
60°	174.9	173.2	167.0	162.2	160.9
62.5°	158.2	155.2	150.8	146.4	144.6
65°	141.1	138.5	134.1	130.1	127.9
67.5°	123.5	121.3	117.4	114.3	112.5
70°	107.2	105.5	101.5	98.5	96.7
72.5°	90.5	88.8	86.6	83.5	82.2
75°	73.8	73.0	70.8	68.1	69.0
77.5°	58.9	57.1	56.3	54.9	53.6
80°	44.0	43.5	42.6	41.3	40.4
82.5°	29.9	29.9	29.4	27.7	27.7
85°	18.0	17.6	17.1	15.8	15.4
87.5°	7.9	7.0	6.2	4.8	4.4
90°	0.8	9.9	26.6	25.0	25.8
92.5°	16.7	22.8	23.5	24.3	24.3
95°	39.5	47.1	48.6	48.6	47.1
97.5°	66.0	72.9	75.9	75.9	75.9
100°	96.4	102.5	104.7	104.7	104.0
102.5°	128.3	132.8	135.9	136.6	135.9
105°	163.2	165.5	167.0	168.5	168.5
107.5°	198.1	201.1	201.1	201.9	198.1
110°	231.5	236.0	236.0	236.0	233.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	267.9	272.5	271.7	269.4	267.9
115°	303.6	308.1	306.6	305.9	303.6
117.5°	339.3	345.3	341.5	339.3	337.0
120°	374.9	381.0	374.9	374.9	372.6
122.5°	407.6	415.1	411.4	409.1	407.6
125°	441.7	448.5	446.3	444.0	443.2
127.5°	475.1	483.5	480.4	477.4	475.1
130°	506.2	516.1	514.6	513.1	510.0
132.5°	541.1	548.7	549.5	545.7	543.4
135°	571.5	579.8	581.4	580.6	578.3
137.5°	604.9	611.7	613.2	612.5	609.4
140°	634.5	641.3	645.1	645.1	642.1
142.5°	664.8	671.7	674.0	674.7	671.7
145°	693.7	699.0	703.6	704.3	701.3
147.5°	719.5	726.3	729.4	730.9	727.8
150°	746.1	750.6	753.6	755.9	753.6
152.5°	769.6	774.1	777.9	781.0	777.9
155°	793.1	795.4	797.7	801.5	799.2
157.5°	813.6	815.1	816.6	821.9	818.2
160°	831.8	833.3	834.1	838.6	835.6
162.5°	848.5	848.5	849.3	854.6	850.8
165°	862.9	862.2	862.2	867.5	863.7
167.5°	875.8	873.6	873.6	878.9	875.1
170°	885.7	883.4	882.7	888.0	883.4
172.5°	892.5	890.3	889.5	894.8	890.3
175°	897.8	895.6	894.0	899.4	894.8
177.5°	900.9	898.6	897.1	901.6	897.1
180°	899.4	899.4	899.4	899.4	899.4

(END OF REPORT)